

# SUBSTITUTE DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

"Injectible Polysaccharide-Cell Compositions"

the specification of which (check one)

\_\_\_\_\_ is attached hereto

X was filed on April 30, 1993

as application Serial No. 08/056,140

\_\_\_\_\_ and was amended on: \_\_\_\_\_

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)	Priority Claimed
_____ (Number)	_____ (Country)
_____ (Number)	_____ (Country)
_____ (Number)	_____ (Country)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of the application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

_____ (Application Serial No.)	_____ (Filing Date)	_____ Status (patented, pending, abandoned)
_____ (Application Serial No.)	_____ (Filing Date)	_____ Status (patented, pending, abandoned)

(patented, pending, abandoned)

As named inventor, I hereby appoint the following attorney(s) and agent to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

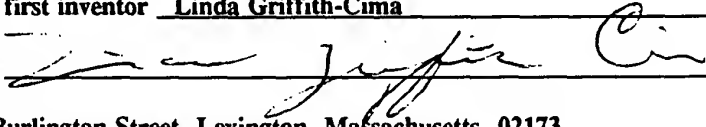
John S. Pratt	29,476
James L. Ewing, IV	30,630
Patrea L. Pabst	31,284
Jamie L. Greene	32,467
Cheryl K. Zalesky	33,052
Dean W. Russell	33,452
Claudia R. Adkison	36,979
Charles T. Simmons	35,359
David W. Bradin	P37,783

Send Correspondence to: Patrea L. Pabst, Esq.  
Kilpatrick & Cody  
1100 Peachtree Street, Suite 2800  
Atlanta, Georgia 30309-4530

Direct telephone calls to: Patrea L. Pabst (404)815-6508, or  
John S. Pratt (404)815-6367

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Linda Griffith-Cima

Inventor's signature  Date 2/28/94

Residence 28 Burlington Street, Lexington, Massachusetts 02173

Citizenship United States

Post Office Address Same as above

Full name of second joint inventor (if any) Anthony Atala

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 14 LaGrange Street, Newton, Massachusetts 02167

Citizenship United States

Post Office Address Same as above

(patented, pending, abandoned)

As named inventor, I hereby appoint the following attorney(s) and agent to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

John S. Pratt	29,476
James L. Ewing, IV	30,630
Patrea L. Pabst	31,284
Jamie L. Greene	32,467
Cheryl K. Zalesky	33,052
Dean W. Russell	33,452
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John S. Pratt (404)815-6367

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Full name of sole or first inventor Linda Griffith-Cima

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 28 Burlington Street, Lexington, Massachusetts 02173

Citizenship United States

Post Office Address Same as above

Full name of second joint inventor (if any) Anthony Atala

Inventor's signature Anthony Atala Date 2-18-94

Residence 68 Pine St, Weymouth, Massachusetts 02193

Citizenship United States

Post Office Address Same as above

Full name of sole or first inventor Charles A. Vacanti

Inventor's signature Charles C. VandeR Date 2/23/94

**Date** 2/23/94

**Residence** 5 Bushnell Drive, Lexington, Massachusetts 02173

**Citizenship** United States

Post Office Address Same as above

Full name of second joint inventor (if any) Keith T. Paige

**Inventor's signature** \_\_\_\_\_ **Date** \_\_\_\_\_

Date \_\_\_\_\_

**Residence** 37 Perry Street, No. 1, Brookline, Massachusetts 02146

**Citizenship** United States

**Post Office Address** Same as above

[illegible]

**DECLARATION FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**INJECTABLE POLYSACCHARIDE-CELL COMPOSITIONS**

the specification of which (check one)

\_\_\_\_\_ is attached hereto

X was filed on April 30, 1993  
as application Serial No. \_\_\_\_\_

\_\_\_\_\_ and was amended on: \_\_\_\_\_  
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)	Priority Claimed
_____ (Number) (Country) (Day/Month/Year Filed)	_____
_____ (Number) (Country) (Day/Month/Year Filed)	_____
_____ (Number) (Country) (Day/Month/Year Filed)	_____

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of the application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

_____ (Application Serial No.)	_____ (Filing Date)	_____ Status (patented, pending, abandoned)
_____ (Application Serial No.)	_____ (Filing Date)	_____ Status (patented, pending, abandoned)

"Injectable Polysaccharide Cell Compositions"

By: Keith T. Paige et

Filed: April 30, 1988

**DECLARATION**

As named inventor, I hereby appoint the following attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

John S. Pratt	29,476
James L. Ewing, IV	30,630
Patrea L. Pabst	31,284
Jamie L. Greene	32,467
Cheryl K. Zalesky	33,052
Dean W. Russell	33,452
Claudia R. Adkison	336,979
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Send Correspondence to: Patrea L. Pabst, Esq.  
Kilpatrick & Cody  
1100 Peachtree Street, Suite 2800  
Atlanta, Georgia 30309-4530

Direct telephone calls to: Patrea L. Pabst (404)815-6508, or  
John S. Pratt (404)815-6367

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Keith T. Paige

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 37 Perry Street, No. 1, Brookline, Massachusetts 02146

Citizenship United States

Post Office Address Same as above

Full name of second joint inventor (if any) Joseph P. Vacanti

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 14 Woodside Road, Winchester, Massachusetts 01890

Citizenship United States

Post Office Address Same as above

Full name of sole or first inventor Charles A. Vacanti

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 5 Bushnell Drive, Lexington, Massachusetts 02173

Citizenship United States

Post Office Address Same as above

Full name of second joint inventor (if any) Keith T. Paige

Inventor's signature *Keith T. Paige* Date 2/24/94

Residence 37 Perry Street, No. 1, Brookline, Massachusetts 02146

Citizenship United States

Post Office Address Same as above



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DATE: 08/25/93

TO:

N06C

PATREA L. PABST, ESQ.  
KILPATRICK & CODY  
SUITE 2800, 1100 PEACHTREE ST.  
ATLANTA, GA 30309

**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE U.S. PATENT AND TRADEMARK OFFICE ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT ASSIGNMENT PROCESSING SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT BRANCH, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231

ASSIGNOR:  
PAIGE, KEITH T.

DOC DATE: 06/17/93

ASSIGNOR:  
VACANTI, JOSEPH P.

DOC DATE: 06/17/93

RECORDATION DATE: 07/06/93    NUMBER OF PAGES 003    REEL/FRAME 6626/0675

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:  
CHILDREN'S MEDICAL CENTER CORPORATION  
55 SHATTUCK STREET  
BOSTON, MA 02115

SERIAL NUMBER    8-056140    FILING DATE    04/30/93  
PATENT NUMBER                         ISSUE DATE    00/00/00

*Flora Kelly*  
EXAMINER/PARALEGAL  
ASSIGNMENT BRANCH  
ASSIGNMENT/CERTIFICATION SERVICES DIVISION

Entered Computer 9/20/93

703254

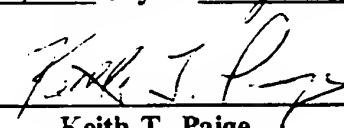


ASSIGNMENT

We, Keith T. Paige of 37 Perry Street, No. 1, Brookline, Massachusetts 02146 and Joseph P. Vacanti of 14 Woodside Road, Winchester, Massachusetts 01890, in consideration of Five Dollars and other valuable consideration paid to me by Children's Medical Center Corporation, a corporation of the Commonwealth of Massachusetts, having its principal place of business at 55 Shattuck Street, Boston, Massachusetts 02115, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Children's Medical Center Corporation, its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in "Injectable Polysaccharide-Cell Compositions" described in an application filed April 30, 1993, in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

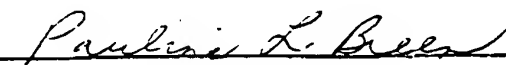
And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 17<sup>th</sup> day of June, 1993.

  
Keith T. Paige

State of Massachusetts)  
County of Suffolk)<sup>SS.</sup>

Then personally appeared the above named Keith T. Paige and acknowledged the foregoing instrument to be his free act and deed, before me, this 17<sup>th</sup> day of June, 1993.

  
Notary Public

(Commission expires 4/96)

REC-6626 FRAME 676

"Injectable Polysaccharide-C 11 Compositions"  
Filed: April 30, 1993  
ASSIGNMENT

WITNESS my hand and seal this 17<sup>th</sup> day of June, 1993.

Joseph P. Vacanti  
Joseph P. Vacanti

State of Massachusetts)  
County of Suffolk)<sup>ss.</sup>

Then personally appeared the above named Joseph P. Vacanti and  
acknowledged the foregoing instrument to be his free act and deed, before me, this 17<sup>th</sup>  
day of June, 1993.

Pauline L. Green  
Notary Public  
Commission expires 4/96

JUL -6 93

PATENT AND TRADEMARK  
OFFICE

REEL 6625 FRAME 677



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DATE: 04/21/94  
TO:

N07A

PATREA L. PABST, ESQ.  
SUITE 2800  
1100 PEACHTREE STREET  
ATLANTA, GA 30309-4530

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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ASSIGNOR:  
ATALA, ANTHONY

DOC DATE: 02/23/94

ASSIGNOR:  
VACANTI, CHARLES A.

DOC DATE: 02/23/94

RECORDATION DATE: 03/21/94    NUMBER OF PAGES 004    REEL/FRAME 6909/0292

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:  
CHILDREN'S MEDICAL CENTER CORPORATION  
55 SHATTUCK STREET  
BOSTON, MASSACHUSETTS 02115

SERIAL NUMBER    8-056140    FILING DATE    04/30/93  
PATENT NUMBER                         ISSUE DATE    00/00/00

EXAMINER/PARALEGAL  
ASSIGNMENT BRANCH  
ASSIGNMENT/CERTIFICATION SERVICES DIVISION

RECEIVED

MAY 11 1994

ALPATEK & ODDY

Entered Computer 5/12/94

P03254

ASSIGNMENT

We, Anthony Atala of 14 LaGrange Street, Newton, Massachusetts 02167, and Charles A. Vacanti of 5 Bushnell Drive, Lexington, Massachusetts 02173, in consideration of Five Dollars and other valuable consideration paid to us by Children's Medical Center Corporation, a corporation of the Commonwealth of Massachusetts having its principal place of business at 55 Shattuck Street, Boston, Massachusetts 02115, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Children's Medical Center Corporation, its successors and assigns, the entire interest for the United States of America and its territories and all foreign countries and jurisdictions including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in "INJECTABLE POLYSACCHARIDE-CELL COMPOSITIONS" described in U.S.S.N. 08/056,140 filed April 30, 1993 by Keith T. Paige and Joseph P. Vacanti in the United States Patent and Trademark Office, in the United States Patent and Trademark Office, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuation, continuation-in-part, renewals, reissue or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters

RECEIVED

RECEIVED

Inventor: Keith T. Paige, et al.  
U.S.S.N. 08/056,140  
Title: INJECTABLE POLYSACCHARIDE-CELL COMPOSITIONS  
ASSIGNMENT

Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 23<sup>rd</sup> day of Feb 1994,  
1994.

Anthony Atala  
Anthony Atala

Commonwealth of Massachusetts )  
County of ) ss.

Then personally appeared the above named Anthony Atala and acknowledged the foregoing instrument to be his free act and deed, before me, this 23<sup>rd</sup> day of February, 1994.

Michael J. Milligan  
Notary Public My commission 2/21/96

WITNESS my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_,  
1994.

Charles A. Vacanti  
Charles A. Vacanti

Commonwealth of Massachusetts )  
County of ) ss.

Then personally appeared the above named Charles A. Vacanti and acknowledged the foregoing instrument to be his free act and deed, before me, this \_\_\_\_\_ day of \_\_\_\_\_, 1994.

Notary Public  
Notary Public



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

DATE: 04/18/94  
TO:

N07A

PATREA L. PABST, ESQ.  
SUITE 2800  
1100 PEACHTREE STREET  
ATLANTA, GA 30309-4530

UNITED STATES PATENT AND TRADEMARK OFFICE  
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ASSIGNOR:  
CIMA, LINDA GRIFFITH

DOC DATE: 02/28/94

RECORDATION DATE: 03/21/94 NUMBER OF PAGES 005 REEL/FRAME 6909/0296

DIGEST : ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE:  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
77 MASSACHUSETTS AVENUE  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER 8-056140 FILING DATE 04/30/93  
PATENT NUMBER ISSUE DATE 00/00/00

*Larry Marshall*  
EXAMINER/PARALEGAL  
ASSIGNMENT BRANCH  
ASSIGNMENT/CERTIFICATION SERVICES DIVISION

RECEIVED  
MAY 11 1994  
KILPATRICK & CODY

Entered Computer 5/12/94  
P03254

ASSIGNMENT

I, Linda Griffith Cima of 28 Burlington Street, Lexington, Massachusetts 02173, in consideration of Five Dollars and other valuable consideration paid to me by Massachusetts Institute of Technology, a corporation of Massachusetts having its principal place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Massachusetts Institute of Technology, its successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in "INJECTABLE POLYSACCHARIDE-CELL COMPOSITIONS" described in U.S.S.N. 08/056,140 filed April 30, 1993 by Keith T. Paige and Joseph M. Vacanti in the United States Patent and Trademark Office, herewith in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And I agree, for myself and my executor and administrator, with said corporation and its successors and assigns but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or

Inventor: Keith T. Paige, et al.  
U.S.S.N. 08/056,140  
ASSIGNMENT

applications based thereon to said corporation, its successors  
and assigns.

WITNESS my hand and seal this 28 day of February,  
1994.

Linda Griffith Cima  
LINDA GRIFFITH CIMA

Commonwealth of Massachusetts )  
County of Middlebury ) ss.

Then personally appeared the above named Linda Griffith  
Cima and acknowledged the foregoing instrument to be free act and  
deed, before me, this 28th day of February, 1994

Keith T. Paige  
Notary Public

NOTARY PUBLIC  
MY COMMISSION EXPIRES 22, 1997



Inventor: Keith T. Paige, et al.  
U.S.S.N. 08/056,140  
Title: INJECTABLE POLYSACCHARIDE-CELL COMPOSITIONS  
ASSIGNMENT

Patent as shall be granted upon said application or applications  
based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_,  
1994.

\_\_\_\_\_  
Anthony Atala

Commonwealth of Massachusetts )  
County of \_\_\_\_\_ ) ss.

Then personally appeared the above named Anthony Atala and  
acknowledged the foregoing instrument to be his free act and deed,  
before me, this 23<sup>rd</sup> day of February, 1994.

Notary Public  
*Comm exp 9-4-98*

WITNESS my hand and seal this 23<sup>rd</sup> day of February,  
1994.

Charles A. Vacanti  
Charles A. Vacanti

Commonwealth of Massachusetts )  
County of Suffolk ) ss.

Then personally appeared the above named Charles A. Vacanti  
and acknowledged the foregoing instrument to be his free act and  
deed, before me, this 23<sup>rd</sup> day of February, 1994.

Notary Public  
*Comm exp 9-4-98*

RECORDED  
NOTARY OFFICE  
MAR 21 94